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=> file .bio

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=> acyl (w) fluoride

L1 346 ACYL (W) FLUORIDE

=> s (unmodified or underivatized or un-derivatized)

L2 47812 (UNMODIFIED OR UNDERIVATIZED OR UN-DERIVATIZED)

=> L1 and L2

L3 2 L1 AND L2

=> d ibib abs 1-2

L3 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:824447 CAPLUS

DOCUMENT NUMBER: 134:2337

TITLE: Immobilization of unmodified biopolymers to acyl fluoride activated substrates

INVENTOR(S): Matson, Robert S.; Milton, Raymond C.

PATENT ASSIGNEE(S): Beckman Coulter, Inc., USA

SOURCE: PCT Int. Appl., 41 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000070088	A2	20001123	WO 2000-US12729	20000510
WO 2000070088	A3	20020328		

W: JP
 RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
 PT, SE

EP 1208226	B1	20010731	US 1999-312095	19990512
	A2	20020529	EP 2000-928944	20000510
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY				
JP 2002544508	T2	20021224	JP 2000-618493	20000510
US 2001039018	A1	20011108	US 2001-872052	20010531
PRIORITY APPLN. INFO.:			US 1999-312095	A 19990512
			WO 2000-US12729	W 20000510

AB A method of attaching **unmodified** biopolymers, particularly, **unmodified** polynucleotides, directly to a solid support is provided. The method includes the steps of (a) providing **unmodified** biopolymers; (b) providing a solid support having at least one surface comprising pendant **acyl fluoride** functionalities; and (c) contacting the **unmodified** biopolymers with the solid support under a condition sufficient for allowing the attachment of the biopolymers to the solid support. The **unmodified** biopolymers may be nucleic acids, polypeptides, proteins, carbohydrates, lipids and analogs thereof. The **unmodified** polynucleotides may be DNA, RNA or synthesized oligonucleotides. The DNA may be single or double stranded. A device including a solid support and **unmodified** biopolymers attached to the solid support by reaction with the pendant **acyl fluoride** functionalities of the solid support is also provided. The methods and devices of the present invention may be used in performing hybridization assays and immunoassays.

L3 ANSWER 2 OF 2 BIOSIS COPYRIGHT (c) 2004 The Thomson Corporation. on STN
 ACCESSION NUMBER: 2001:452613 BIOSIS
 DOCUMENT NUMBER: PREV200100452613
 TITLE: Immobilization of **unmodified** biopolymers to **acyl fluoride** activated substrates.
 AUTHOR(S): ~~Robert S. [Inventor]~~, Robert S. [Inventor], ~~Raymond C. [Inventor]~~, Raymond C.
 [Inventor]
 CORPORATE SOURCE: ASSIGNEE: Beckman Coulter, Inc.
 PATENT INFORMATION: US 6268141 July 31, 2001
 SOURCE: Official Gazette of the United States Patent and Trademark Office Patents, (July 31, 2001) Vol. 1248, No. 5. e-file.
 CODEN: OGUPE7. ISSN: 0098-1133.
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 ENTRY DATE: Entered STN: 26 Sep 2001
 Last Updated on STN: 22 Feb 2002

AB A method of attaching **unmodified** biopolymers, particularly, **unmodified** polynucleotides, directly to a solid support is provided. The method includes the steps of (a) providing **unmodified** biopolymers; (b) providing a solid support having at least one surface comprising pendant **acyl fluoride** functionalities, and (c) contacting the **unmodified** biopolymers with the solid support under a condition sufficient for allowing the attachment of the biopolymers to the solid support. The **unmodified** biopolymers may be nucleic acids, polypeptides, proteins, carbohydrates, lipids and analogues thereof. The **unmodified** polynucleotides may be DNA, RNA or synthesized

oligonucleotides. The DNA may be single or double stranded. A device including a solid support and **unmodified** biopolymers attached to the solid support by reaction with the pendant **acyl fluoride** functionalities of the solid support is also provided. The methods and devices of the present invention may be used in performing hybridization assays and immunoassays.

EAST: [Untitled1:1]

File View Edit Tools Window Help

☐ Drafts
☐ Pending
☒ Active
 L4: (4) pendant adj acyl adj fluoride
 L5: (266) acyl adj fluoride
 L6: (9) 5 and (unmodified or un-derivatized or underivatized)
 L7: (49) 5 and (without with (modif\$ or derivat\$))
☐ Failed
☐ Saved
☐ Favorites
☐ Tagged (0)
☐ UDC
☐ Queue
☐ Trash

Search:
 DB:
 Default operator: ☐ Highlight all hit terms entirely
 and (without with (modif\$ or derivat\$))

	U	1	Document ID	Issue Dat	Pages	Title	Current OR	Current XR	Retrieval	Inventor	S	C	P						
1	<input type="checkbox"/>	<input type="checkbox"/>	US 6780220	20040824	9	Method for generating	75/602	705/1;		Milbrath, Dean S.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			B2			pollution credits while		75/709		et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	<input type="checkbox"/>	<input type="checkbox"/>	US 6734154	20040511	18	Cleaning process and	510/286	510/285;		Flynn, Richard M.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			B2			composition using fluor		510/407;		et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	<input type="checkbox"/>	<input type="checkbox"/>	US 6685764	20040203	9	Processing molten	75/585	75/589;		Milbrath, Dean S.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			B2			reactive metals and all		75/602;		et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	<input type="checkbox"/>	<input type="checkbox"/>	US 6630075	20031007	12	Use of fluorinated	252/183.11	568/338;		Behr, Fred E. et	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			B2			ketones in fire extingui		568/340;		al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	<input type="checkbox"/>	<input type="checkbox"/>	US 6608019	20030819	17	Alkoxy-substituted	510/412	510/505		Flynn, Richard M.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			B1			perfluorocompounds				et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	<input type="checkbox"/>	<input type="checkbox"/>	US 6548471	20030415	17	Alkoxy-substituted	510/412	134/40;		Flynn, Richard M.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			B2			perfluorocompounds		510/201;		et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	<input type="checkbox"/>	<input type="checkbox"/>	US 6509309	20030121	19	Cleaning composition	510/412	134/40;		Flynn, Richard M.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			B2			comprising alkoxy subst		510/201;		et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	<input type="checkbox"/>	<input type="checkbox"/>	US 6506459	20030114	19	Coating compositions	427/498	134/22.19;		Flynn, Richard M.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			B2			containing alkoxy subst		134/40;		et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9	<input type="checkbox"/>	<input type="checkbox"/>	US 6478979	20021112	14	Use of fluorinated	252/2	169/46;		Rivers, Paul E. et	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			B1			ketones in fire extingui		169/47;		al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10	<input type="checkbox"/>	<input type="checkbox"/>	US 6417153	20020709	22	Azeotrope-like	510/411	134/38;		Owens, John G.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			B1			compositions and their		134/39;		et al.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11	<input type="checkbox"/>	<input type="checkbox"/>	US 6380149	20020430	20	Cleaning process and	510/412	134/40;		Flynn, Richard M.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

EAST - [Untitled1:1]

File View Edit Tools Window Help

L25: (0) waveguide and (carboxylated and pvdf)
L26: (0) waveguide and (carboxylated adj polyvinyl)
L27: (132) waveguide and (polyvinylidene adj fluoride)
L30: (2) vann-charles.in.
L31: (23) vann-charles-s.in.
L32: (3) 31 and waveguide
L33: (3) 32 and acrylic
L34: (0) waveguide and (carboxylated same (polyvinylidene adj fluoride))
L35: (0) waveguide and (carboxylated with (polyvinylidene adj fluoride))
L36: (0) 32 and methacrylic
L37: (3) 32 and polypropylene
L38: (3) 37 and carboxyl\$
L39: (213) waveguide and (pvdf or (polyvinylidene adj fluoride))
L40: (27) 39 and carboxyl\$
L43: (7) 39 and carboxy
L44: (0) waveguide same (ethylene adj methacrylic)
L45: (4) microscope same (ethylene adj acrylic adj acid)
L46: (6) microscope same (ethylene adj methacrylic adj acid)
L47: (0) microscope same (carboxylated with polypropylene)
L48: (0) microscope same (carboxylated with polyethylene)
L49: (257) carboxylated with polypropylene
L50: (62) carboxylated adj polypropylene
L51: (1) 50 and (assay or antibody or nucleotide)
L52: (1) 50 and (assay or antibody or nucleotide or nucleic or antibodies or protein)
L53: (0) 50 and (fiber adj optic)
L54: (71) carboxyl\$ adj polypropylene
L55: (2) 54 and (assay or nucleic or antibodies or antibody or nucleotide)
L56: (1) "5106386".PN.
L57: (1) ("5470307").PN.

Failed
(27) 39 and carboxyl\$
(28) 39 and carboxy\$

Saved
(1) ("5137827").PN.
(1) ("6673533").PN

5470307

U	1	Document ID	Issue Dat	Pages	Title	Current OR	Current XR	Retrieval	Inventor	S	C	P	Im
1	<input type="checkbox"/>	US 5470307 A	19951128	29	Catheter system for controllably releasing	604/20	600/339; 604/265;		Lindall, Arnold W.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US

Ready

NUM ISCR

EAST - [Untitled1:1]

File View Edit Tools Window Help

Drafts

- BRS:
- BRS: 1
- BRS:

Pending

Active

- L1: (1) waveguide and (acyl adj fluoride)
- L2: (0) 1 and polymer\$
- L3: (1) 1 and plastic
- L5: (0) waveguide same (ethylene adj acrylic adj acid)
- L6: (0) waveguide same (ethylene adj methacrylic adj acid)
- L7: (26) waveguide same (carboxylated pvdf)
- L10: (0) waveguide with (carboxylated adj pvdf)
- L11: (0) waveguide same (carboxylated adj pvdf)
- L12: (0) waveguide same (carboxylated adj polypropylene)
- L13: (0) waveguide same (carboxylated adj polyethylene)
- L4: (1) waveguide same (ethylene adj acrylic)
- L14: (20) waveguide and (ethylene adj acrylic adj acid)
- L15: (6) waveguide and ((ethylene adj acrylic adj acid) same plastic)
- L16: (338) ((ethylene adj acrylic adj acid) same plastic)
- L17: (140) ((ethylene adj acrylic adj acid) with plastic)
- L18: (0) (ethylene adj acrylic adj acid) same waveguide
- L19: (20) (ethylene adj acrylic adj acid) and waveguide
- L20: (0) waveguide same (carboxylated adj pvdf)
- L21: (0) waveguide and (carboxylated adj pvdf)
- L22: (0) waveguide and (carboxylated adj polypropylene)
- L23: (0) waveguide and (carboxylated adj polyethylene)
- L24: (2) (ethylene adj methacrylic adj acid) and waveguide
- L25: (0) waveguide and (carboxylated and pvdf)

5470307

Highlight all hit terms in entry

	U	1	Document ID	Issue Dat	Pages	Title	Current OR	Current XR	Retrieval	Inventor	S	C	P				Im
1	<input type="checkbox"/>	<input type="checkbox"/>	US 5470307	19951128	29	Catheter system for controllably releasing	604/20	600/339; 604/265;		Lindall, Arnold W.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	US

Ready

NUM | SCR